

FORM PTO-1390  
(REV. 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371

KPO147

U.S. APPLICATION NO. (If known, see 37 CFR 1.5

10/070076

INTERNATIONAL APPLICATION NO.

PCT/JP01/05853

INTERNATIONAL FILING DATE

5 July 2001 (5.7.01)

PRIORITY DATE CLAIMED

7.7.2000(7.7.00)

TITLE OF INVENTION

CURRENT SENSOR USING A SAGNAC INTERFEROMETER

APPLICANT(S) FOR DO/EO/US

Aritaka OHNO, Ryuji USUI, Kiyohisa TERAJ, Masao TAKAHASHI, Kinichi SASAKI

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☒ <sup>Two</sup> An assignment documents for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included, for each.
13. ☐ A **FIRST** preliminary amendment.
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☒ <sup>Two</sup> A change of power of attorney and/or address letter documents by two assignees.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: Express Mail Certificate  
Verification of Translation  
Return receipt postcard

U.S. APPLICATION NO. (If known, fill in)

10/07007

INTERNATIONAL APPLICATION NO.

PCT/JP01/05853

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KPO147

21. ☒ The following fees are submitted:**BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):**Neither international preliminary examination fee (37 CFR 1.482)  
nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO  
and International Search Report not prepared by the EPO or JPO..... \$1000.00International preliminary examination fee (37 CFR 1.482) not paid to  
USPTO but International Search Report prepared by the EPO or JPO ..... ~~\$890.00~~ \$890.00International preliminary examination fee (37 CFR 1.482) not paid to USPTO  
but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$710.00International preliminary examination fee (37 CFR 1.482) paid to USPTO  
but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... \$690.00International preliminary examination fee (37 CFR 1.482) paid to USPTO  
and all claims satisfied provisions of PCT Article 33(1)-(4) ..... \$100.00**ENTER APPROPRIATE BASIC FEE AMOUNT =****CALCULATIONS PTO USE ONLY**

\$ 890.00

Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30  
months from the earliest claimed priority date (37 CFR 1.492(e)).

\$

**CLAIMS** **NUMBER FILED** **NUMBER EXTRA** **RATE** **\$**

Total claims 25 - 20 = 5 x \$18.00 \$ 90.00

Independent claims 2 - 3 = 0 x ~~\$80.00~~ \$84. \$ 280.00MULTIPLE DEPENDENT CLAIM(S) (if applicable) + ~~\$30.00~~ \$280 \$**TOTAL OF ABOVE CALCULATIONS =** \$1,260.00☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above  
are reduced by 1/2.

\$

**SUBTOTAL =**

\$

Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30  
months from the earliest claimed priority date (37 CFR 1.492(f)).

\$

**TOTAL NATIONAL FEE =**

\$

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be  
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +

\$ 80.00

**TOTAL FEES ENCLOSED =** \$1,340.00Amount to be  
refunded:

\$

charged:

\$

a. ☒ A check in the amount of \$ 1,340.00 to cover the above fees is enclosed.b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any  
overpayment to Deposit Account No. 07-0137. A duplicate copy of this sheet is enclosed.d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card  
information should not be included on this form. Provide credit card information and authorization on PTO-2038.**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR  
1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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NAME

34,655

REGISTRATION NUMBER

20070076-030102

10/070076

Rec'd PCT/PTO 01 MAR 2002

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Aritaka Ohno, Ryuji Usui, Kiyohisa Terai,  
Masao Takahashi and Kinichi Sasaki

International Application No. PCT/JP01/05853

International Filing Date: July 5, 2001

Attorney Docket No. KPO147

Title: Current sensor using a Sagnac  
interferometer

CERTIFICATE OF EXPRESS MAILING UNDER 37 CFR 1.10

I hereby certify that this United States/PCT national stage patent application and the documents referred to therein as enclosed are being deposited with the United States Postal Service on **March 1, 2002** as "Express Mail," mailing label number EL236102421US, in an envelope addressed to: Commissioner for Patents, Box PCT, Washington, D.C. 20231.

  
Jean C. Reed

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10/070076  
JC18 PCT/PTO 01 MAR 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re International Application of Aritaka OHNO et al.

International Serial No. PCT/JP01/05853

International Filing Date: July 5, 2001

For: " CURRENT SENSOR USING A SAGNAC INTERFEROMETER "

VERIFICATION OF TRANSLATION

Honorable Commissioner of Patents and Trademarks


Washington, D.C. 20231

Sir:

Takashi Kusano residing at Sagami Bldg., 2-21, Shinjuku 4-chome, Shinjuku-ku, Tokyo, Japan, declares:

- (1) that he knows well both the Japanese and English languages;
- (2) that he translated the above-identified International Application from Japanese to English;
- (3) that the attached English translation is a true and correct translation of the above-identified International Application to the best of his knowledge and belief; and
- (4) that all statements made of his own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements are made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 USC 1001, and that such false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated February 18, 2002

  
\_\_\_\_\_  
Takashi Kusano